

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings of claims in the application:

**Listing of Claims:**

1. (Original) A culture medium for culturing neural stem cells comprising hepatocyte growth factor (HGF).

2. (Original) The culture medium of claim 1, further comprising another growth factor in addition to HGF.

3. (Original) The culture medium of claim 2, wherein the growth factor is selected from the group consisting of fibroblast growth factor-2 (FGF-2) and epidermal growth factor (EGF).

4. (Currently Amended) A method for culturing neural stem cells comprising the step of culturing a neural stem cell or a population of cells comprising at least one neural stem cell in the growth medium of claim 1 ~~any one of claims 1 to 3~~.

5. (Currently Amended) A method for proliferating neural stem cells comprising the step of culturing a neural stem cell or a population of cells comprising at least one neural stem cell in the growth medium of claim 1 ~~any one of claims 1 to 3~~ under conditions that allow the proliferation of the neural stem cell.

6. (Currently Amended) A method for differentiating neural stem cells comprising the step of culturing a neural stem cell or a population of cells comprising at least one neural stem cell in the growth medium of claim 1 ~~any one of claims 1 to 3~~ under conditions that allow the differentiation of the neural stem cell into a population of cells containing neurons and glia cells.

7. (Original) The method of any one of claims 4 to 6, wherein the neural stem cell is derived from mammalian neural tissue selected from the group consisting of brainstem, cerebellum, cerebral cortex, midbrain, spinal cord and ventricular.

8. (Currently Amended) The method of any one of claims 4 to 6 7, wherein the neural stem cell is genetically modified.

9. (Currently Amended) A method of treating a neurological disorder using a neural stem cell or a population of cells comprising at least one neural stem cell cultured in the medium of claim 1 ~~any one of claims 1 to 3~~.

10. (Original) The method of claim 9, wherein the cell population is enriched in neural stem cells.

11. (Original) The method of claim 9, wherein the cell population is enriched in neurons.

12. (Original) The method of any one of claims 9 to 11, wherein the neurological disorder to be treated is selected from the group consisting of epilepsy, head trauma, stroke, amyotrophic lateral sclerosis, Parkinson's disease, Alzheimer's disease and Huntington's disease.

13. (Currently Amended) The method of any one of claims 9 to 11 12, wherein the neurological disorder is treated by transplantation of at least one of the cell population.

14. (New) The method of claim 12, wherein the neurological disorder is treated by transplantation of at least one of the cell population.